




Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

All shaded fields must be completed.
This is a legal document: any misrepresentation may be construed as fraud.

168290

Client Name CAMECO RESOURCES		Project Identification MU-1 Stability Monitoring		Sampler (Signature/Attestation of Authenticity) <i>Gwen C. Trammell</i>		Telephone # 307-358-6541 x468	
Report Address P.O. Box 1210 Glenrock, WY 82637		Contact Name Larry Wilbanks		ANALYSES / PARAMETERS Alkalinity Calcium Sulfate TDS Uranium Chloride Iron Arsenic Radium-226			
Invoice Address Same		Email Larry_Wilbanks@Cameco.com					
		Phone 307-358-6541 x 427		 Preservative Lot # 1:1 HNO3-M-083116-1 H2SO4-2509H29 NaOH-Wet-2-9-6			
		Purchase Order # 4500513220		REMARKS - Dissolved Metals - Filtered and preserved in the field <i>Cooler Temp</i>			
		Quote #					

ITEM	LAB ID (Lab Use Only)	DATE	TIME	SAMPLE IDENTIFICATION	Matrix	# of Containers	Alkalinity	Calcium	Sulfate	TDS	Uranium	Chloride	Iron	Arsenic	Radium-226	REMARKS
1	51609525-001	9-28-16	11:12	B-001	GW	3	X	X	X						X	GW = groundwater
2	002	9-28-16	10:11	B-003	"	4	X	X	X	X	X					
3	003	9-28-16	12:42	B-005	"	2	X	X	X							
4	004	9-28-16	2:19	B-007	"	2	X	X								
5	005	9-28-16	4:47	B-010	"	3	X	X	X	X						
6	006	*9-29-16	10:18	B-012	"	2	X	X	X			X				
7	007	*9-29-16	10:15	B-012	"	2			X				X			
8	008	*9-29-16	11:22	B-014	"	1							X			
9	009	9-28-16	3:37	B-016	"	1							X			
10	010	9-28-16	4:50	B-017	"	3	X	X		X						
11	011	9-28-16	11:27	B-019	"	4	X	X		X	X			X		
12																
13																
14																

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
<i>Beakers 2.30C</i>	<i>Gwen C. Trammell</i>	9-29-16	11:55	<i>Ken Carraway</i>	9/29/16	12:50
	<i>Ken Carraway</i>	9/29/16	16:28	<i>Gwen C. Trammell</i>	9/30/16	12:46

SHIPPING INFO	MATRIX CODES	TURNAROUND TIMES	COMPLIANCE INFORMATION	ADDITIONAL REMARKS
<input type="checkbox"/> UPS <input type="checkbox"/> Fed Express <input type="checkbox"/> US Mail <input type="checkbox"/> Hand Carried <input type="checkbox"/> Other _____	Water WT Soil SL Solid SD Filter FT Other OT	<input checked="" type="checkbox"/> Check desired service <input checked="" type="checkbox"/> Standard turnaround <input type="checkbox"/> RUSH - 5 Working Days <input type="checkbox"/> URGENT - < 2 Working Days <i>Rush & Urgent Surcharges will be applied</i>	Compliance Monitoring? Y (N) Program (SDWA, NPDES,...) PWSID / Permit # Chlorinated? Y/N Sample Disposal: Lab Client	<i>Please use same EPA methods as when running guideline & analyses.</i>

**MU-1 Quarterly Sampling
Analytical List for September 2016**

Well Number	Parameters	Bottles
B-001	Alk, Ca, Sulfate, Ra226 ✓ ✓ ✓ ✓	250 ml Filtered and Preserved ½-gallon Preserved 500 ml Raw
B-003	Alk, Ca, Sulfate, TDS, Uranium ✓ ✓ ✓ ✓ ✓	250 ml Filtered and Preserved ½-gallon Preserved 500 ml Raw 500 ml Filtered
B-005	Alk, Ca, Sulfate ✓ ✓ ✓	250 ml Filtered and Preserved 500 ml Raw
B-007	Alk, Ca ✓ ✓	250 ml Filtered and Preserved 500 ml Raw
B-010	Alk, Ca, Sulfate, TDS ✓ ✓ ✓ ✓	250 ml Filtered and Preserved 500 ml Filtered 500 ml Raw
B-011	Alk, Ca, Cl, Sulfate ✓ ✓ ✓ ✓	250 ml Filtered and Preserved 500 ml Raw
B-012	Fe, Sulfate ✓ ✓	250 ml Filtered and Preserved 500 ml Raw
B-014	Fe ✓	250 ml Filtered and Preserved
B-016	Fe ✓	250 ml Filtered and Preserved
B-017	Alk, Ca, TDS ✓ ✓ ✓	250 ml Filtered and Preserved 500 ml Raw 500 ml Filtered
B-019	Alk, As, Ca, TDS, Uranium ✓ ✓ ✓ ✓ ✓	250 ml Filtered and Preserved ½-gallon Preserved 500 ml Raw 500 ml Filtered

If you have any questions please call Larry Wilbanks
307-358-6541 x427



Date: 10/20/2016

CLIENT: Power Resources (Cameco)
Project: MU-1 Stability Monitoring
Lab Order: S1609525

CASE NARRATIVE
Report ID: S1609525001

Samples B-001, B-003, B-005, B-007, B-010, B-011, B-012, B-014, B-016, B-017, and B-019 were received on September 30, 2016.

All samples were received and analyzed within the EPA recommended holding times, except those noted below in this case narrative. Samples were analyzed using the methods outlined in the following references:

"Standard Methods For The Examination of Water and Wastewater", approved method versions
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW-846, 3rd Edition
40 CFR Parts 136 and 141
40 CFR Part 50, Appendices B, J, L, and O
Methods indicated in the Methods Update Rule published in the Federal Register Friday, May 18, 2012
ASTM approved and recognized standards

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by:

Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-001
ClientSample ID: B-001
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 11:12:00 AM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

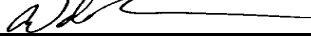
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	94	mg/L		5	SM 2320B	10/03/2016 1627	IBS
Alkalinity, Bicarbonate as HCO3	115	mg/L		5	SM 2320B	10/03/2016 1627	IBS
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	10/03/2016 1627	IBS
Sulfate	74	mg/L		1	EPA 300.0	10/06/2016 1356	AB
Calcium	36	mg/L		1	EPA 200.7	10/03/2016 1747	DG
Radionuclides - Dissolved							
Radium 226	264	pCi/L		0.2	SM 7500 Ra-B	10/18/2016 1320	MB
Radium 226 Precision (±)	2.0	pCi/L			SM 7500 Ra-B	10/18/2016 1320	MB

These results apply only to the samples tested.

RL - Reporting Limit

- | | | | | |
|--------------------|---|--|----|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | C | Calculated Value |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | L | Analyzed by another laboratory |
| | M | Value exceeds Monthly Ave or MCL or is less than LCL | ND | Not Detected at the Reporting Limit |
| | O | Outside the Range of Dilutions | S | Spike Recovery outside accepted recovery limits |
| | X | Matrix Effect | | |

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-002
ClientSample ID: B-003
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 10:11:00 AM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Anions/Cations (Alkalinity, Sulfate, Calcium), General Parameters (Total Dissolved Solids), and Metals - Dissolved (Uranium).

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by another laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-003
ClientSample ID: B-005
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 12:42:00 PM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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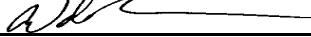
Anions/Cations

Alkalinity, Total (As CaCO3)	135	mg/L		5	SM 2320B	10/03/2016 1644 IBS
Alkalinity, Bicarbonate as HCO3	165	mg/L		5	SM 2320B	10/03/2016 1644 IBS
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	10/03/2016 1644 IBS
Sulfate	60	mg/L		1	EPA 300.0	10/06/2016 1423 AB
Calcium	46	mg/L		1	EPA 200.7	10/03/2016 1806 DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by another laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-004
ClientSample ID: B-007
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 2:19:00 PM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
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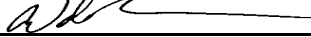
Anions/Cations

Alkalinity, Total (As CaCO3)	179	mg/L		5	SM 2320B	10/03/2016 1654 IBS
Alkalinity, Bicarbonate as HCO3	219	mg/L		5	SM 2320B	10/03/2016 1654 IBS
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	10/03/2016 1654 IBS
Calcium	50	mg/L		1	EPA 200.7	10/03/2016 1808 DG

These results apply only to the samples tested.

RL - Reporting Limit

Qualifiers:	B	Analyte detected in the associated Method Blank	C	Calculated Value
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	J	Analyte detected below quantitation limits	L	Analyzed by another laboratory
	M	Value exceeds Monthly Ave or MCL or is less than LCL	ND	Not Detected at the Reporting Limit
	O	Outside the Range of Dilutions	S	Spike Recovery outside accepted recovery limits
	X	Matrix Effect		

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported: 10/20/2016
Report ID: S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-005
ClientSample ID: B-010
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 4:47:00 PM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

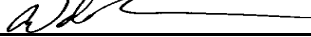
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	274	mg/L		5	SM 2320B	10/03/2016 1703	IBS
Alkalinity, Bicarbonate as HCO3	334	mg/L		5	SM 2320B	10/03/2016 1703	IBS
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	10/03/2016 1703	IBS
Sulfate	152	mg/L		1	EPA 300.0	10/06/2016 1505	AB
Calcium	107	mg/L		1	EPA 200.7	10/03/2016 1810	DG
General Parameters							
Total Dissolved Solids (180)	570	mg/L		10	SM 2540	10/02/2016 1414	NLG

These results apply only to the samples tested.

RL - Reporting Limit

- | | | | | |
|--------------------|---|--|----|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | C | Calculated Value |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | L | Analyzed by another laboratory |
| | M | Value exceeds Monthly Ave or MCL or is less than LCL | ND | Not Detected at the Reporting Limit |
| | O | Outside the Range of Dilutions | S | Spike Recovery outside accepted recovery limits |
| | X | Matrix Effect | | |

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-006
ClientSample ID: B-011
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/29/2016 10:18:00 AM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

Table with 7 columns: Analyses, Result, Units, Qual, RL, Method, Date Analyzed/Init. Rows include Alkalinity, Chloride, Sulfate, Calcium, etc.

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers: B Analyte detected in the associated Method Blank, E Value above quantitation range, J Analyte detected below quantitation limits, M Value exceeds Monthly Ave or MCL or is less than LCL, O Outside the Range of Dilutions, X Matrix Effect, C Calculated Value, H Holding times for preparation or analysis exceeded, L Analyzed by another laboratory, ND Not Detected at the Reporting Limit, S Spike Recovery outside accepted recovery limits

Reviewed by: [Signature]
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported: 10/20/2016
Report ID: S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-007
ClientSample ID: B-012
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/29/2016 10:15:00 AM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

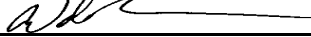
Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Sulfate	108	mg/L		1	EPA 300.0	10/06/2016 1532	AB
Metals - Dissolved							
Iron	3.21	mg/L		0.05	EPA 200.7	10/03/2016 1815	DG

These results apply only to the samples tested.

RL - Reporting Limit

- | | | | | |
|--------------------|---|--|----|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | C | Calculated Value |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | L | Analyzed by another laboratory |
| | M | Value exceeds Monthly Ave or MCL or is less than LCL | ND | Not Detected at the Reporting Limit |
| | O | Outside the Range of Dilutions | S | Spike Recovery outside accepted recovery limits |
| | X | Matrix Effect | | |

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-008
ClientSample ID: B-014
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/29/2016 11:22:00 AM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

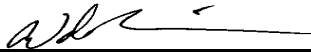
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init
Metals - Dissolved						
Iron	2.55	mg/L		0.05	EPA 200.7	10/04/2016 2240 DG

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by another laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-009
ClientSample ID: B-016
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 3:37:00 PM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

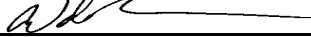
Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Metals - Dissolved							
Iron	2.54	mg/L		0.05	EPA 200.7	10/04/2016 2248	DG

These results apply only to the samples tested.

RL - Reporting Limit

- Qualifiers:**
- B Analyte detected in the associated Method Blank
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - M Value exceeds Monthly Ave or MCL or is less than LCL
 - O Outside the Range of Dilutions
 - X Matrix Effect

- C Calculated Value
- H Holding times for preparation or analysis exceeded
- L Analyzed by another laboratory
- ND Not Detected at the Reporting Limit
- S Spike Recovery outside accepted recovery limits

Reviewed by: 
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported 10/20/2016
Report ID S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-010
ClientSample ID: B-017
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 4:50:00 PM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	138	mg/L		5	SM 2320B	10/03/2016 1729	IBS
Alkalinity, Bicarbonate as HCO3	168	mg/L		5	SM 2320B	10/03/2016 1729	IBS
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	10/03/2016 1729	IBS
Calcium	57	mg/L		1	EPA 200.7	10/03/2016 1821	DG
General Parameters							
Total Dissolved Solids (180)	340	mg/L		10	SM 2540	10/02/2016 1415	NLG

These results apply only to the samples tested.

RL - Reporting Limit

- | | | | | |
|--------------------|---|--|----|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | C | Calculated Value |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
| | J | Analyte detected below quantitation limits | L | Analyzed by another laboratory |
| | M | Value exceeds Monthly Ave or MCL or is less than LCL | ND | Not Detected at the Reporting Limit |
| | O | Outside the Range of Dilutions | S | Spike Recovery outside accepted recovery limits |
| | X | Matrix Effect | | |

Reviewed by:
Wade Nieuwsma, Assistant Laboratory Manager



Sample Analysis Report

Company: Power Resources (Cameco)
PO Box 1210
Glenrock, WY 82637

Date Reported: 10/20/2016
Report ID: S1609525001

ProjectName: MU-1 Stability Monitoring
Lab ID: S1609525-011
ClientSample ID: B-019
COC: 168290

WorkOrder: S1609525
CollectionDate: 9/28/2016 11:27:00 AM
DateReceived: 9/30/2016 12:46:00 PM
FieldSampler: GT
Matrix: Water

Comments

Analyses	Result	Units	Qual	RL	Method	Date Analyzed/Init	
Anions/Cations							
Alkalinity, Total (As CaCO3)	111	mg/L		5	SM 2320B	10/03/2016 1738	IBS
Alkalinity, Bicarbonate as HCO3	136	mg/L		5	SM 2320B	10/03/2016 1738	IBS
Alkalinity, Carbonate as CO3	ND	mg/L		5	SM 2320B	10/03/2016 1738	IBS
Calcium	40	mg/L		1	EPA 200.7	10/03/2016 1824	DG
General Parameters							
Total Dissolved Solids (180)	240	mg/L		10	SM 2540	10/02/2016 1416	NLG
Metals - Dissolved							
Arsenic	0.006	mg/L		0.001	EPA 200.8	10/01/2016 137	MS
Uranium	0.676	mg/L		0.0003	EPA 200.8	10/01/2016 137	MS

These results apply only to the samples tested.

RL - Reporting Limit

- | | | | | |
|--------------------|---|--|----|--|
| Qualifiers: | B | Analyte detected in the associated Method Blank | C | Calculated Value |
| | E | Value above quantitation range | H | Holding times for preparation or analysis exceeded |
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| | M | Value exceeds Monthly Ave or MCL or is less than LCL | ND | Not Detected at the Reporting Limit |
| | O | Outside the Range of Dilutions | S | Spike Recovery outside accepted recovery limits |
| | X | Matrix Effect | | |

Reviewed by: Wade Nieuwsma
Wade Nieuwsma, Assistant Laboratory Manager



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1609525
Project: MU-1 Stability Monitoring

Date: 10/20/2016
Report ID: S1609525001

Alkalinity		Sample Type	MBLK		Units: mg/L				
BLANK (10/03/16 15:36)	Analyte	RunNo:	139361						
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
	Alkalinity, Total (As CaCO3)	ND	5						

Alkalinity		Sample Type	LCS		Units: mg/L				
ATQC (10/03/16 15:26)	Analyte	RunNo:	139361						
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
	Alkalinity, Total (As CaCO3)	586	5	595		98.4	90 - 110		

Alkalinity		Sample Type	DUP		Units: mg/L				
S1609525-006AD (10/03/16 17:20)	Analyte	RunNo:	139361						
		Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
	Alkalinity, Bicarbonate as HCO3	313	5	314	0.488		20		
	Alkalinity, Carbonate as CO3	ND	5	ND			20		
	Alkalinity, Total (As CaCO3)	256	5	258	0.488		20		

Dissolved Metals by ICP - EPA 200.7 - Water		Sample Type	MBLK		Units: mg/L				
MBLK DISS/CAT (10/04/16 19:11)	Analyte	RunNo:	139432						
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
	Iron	ND	0.05						

Dissolved Metals by ICP - EPA 200.7 - Water		Sample Type	LCS		Units: mg/L				
DISS LCS Q (10/04/16 19:13)	Analyte	RunNo:	139432						
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
	Iron	0.95	0.05	1		95.1	85 - 115		

Dissolved Metals by ICP - EPA 200.7 - Water		Sample Type	MS		Units: mg/L				
S1609492-005CS (10/03/16 12:50)	Analyte	RunNo:	139376						
		Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
	Iron	0.29	0.05	0.25	ND	107	70 - 130		

Dissolved Metals by ICP - EPA 200.7 - Water		Sample Type	MSD		Units: mg/L				
S1609492-005CSD (10/03/16 12:52)	Analyte	RunNo:	139376						
		Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
	Iron	0.25	0.05	0.29	16.3	89.7	20		

- Qualifiers:**
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 - O Outside the Range of Dilutions
 - S Spike Recovery outside accepted recovery limits
 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1609525
Project: MU-1 Stability Monitoring

Date: 10/20/2016
Report ID: S1609525001

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MBLK**

Units: mg/L

MBLK (09/30/16 12:45)		RunNo: 139326						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	ND	0.005						
Uranium	ND	0.0003						

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **LCS**

Units: mg/L

LCS (09/30/16 12:39)		RunNo: 139326						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Arsenic	0.098	0.005	0.1		98.3	85 - 115		
Uranium	0.102	0.0003	0.1		102	85 - 115		

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MS**

Units: mg/L

S1609525-002BS (10/01/16 01:26)		RunNo: 139326						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Uranium	2.08	0.0003	1.1	1.04	94.5	70 - 130		

Dissolved Metals by ICPMS EPA 200.8 - Water

Sample Type **MSD**

Units: mg/L

S1609525-002BMSD (10/01/16 01:32)		RunNo: 139326						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Uranium	2.12	0.0003	2.08	2.06	98.5	20		

Anions by ION Chromatography

Sample Type **MBLK**

Units: mg/L

BLK (10/06/16 08:57)		RunNo: 139547						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	ND	1						
Sulfate	ND	1						

Anions by ION Chromatography

Sample Type **LCS**

Units: mg/L

DIONEX (10/06/16 09:11)		RunNo: 139547						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	30	1	30		99.1	90 - 110		
Sulfate	142	1	150		94.5	90 - 110		

Anions by ION Chromatography

Sample Type **MS**

Units: mg/L

S1609524-005ASPK (10/06/16 16:40)		RunNo: 139547						
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Chloride	24	1	18.2	5	106	80 - 120		
Sulfate	235	1	136	83	111	80 - 120		

Anions by ION Chromatography

Sample Type **MSD**

Units: mg/L

S1609524-005ASPKD (10/06/16 16:54)		RunNo: 139547						
Analyte	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual	
Chloride	24	1	24	0.126	106	20		
Sulfate	235	1	235	0.0810	111	20		

Qualifiers: B Analyte detected in the associated Method Blank
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E Value above quantitation range
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1609525
Project: MU-1 Stability Monitoring

Date: 10/20/2016
Report ID: S1609525001

Cations by ICP (Method 200.7)		Sample Type	MBLK		Units: mg/L			
Analyte	RunNo: 139367	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Calcium		ND	1					

Cations by ICP (Method 200.7)		Sample Type	LCS		Units: mg/L			
Analyte	RunNo: 139367	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Calcium		40	1	40		100	85 - 115	

Cations by ICP (Method 200.7)		Sample Type	MS		Units: mg/L			
Analyte	RunNo: 139367	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual
Calcium		83	1	25	58	100	70 - 130	

Cations by ICP (Method 200.7)		Sample Type	MSD		Units: mg/L			
Analyte	RunNo: 139367	Result	RL	Conc	%RPD	%REC	% RPD Limits	Qual
Calcium		79	1	83	4.54	85.3	20	

Radium 226 in Water - Dissolved		Sample Type	MBLK		Units: pCi/L					
Analyte	RunNo: 139944	Result	RL	PrepDate: 10/12/16 0:00	BatchID: 12424	Spike	Ref Samp	%REC	% Rec Limits	Qual
Radium 226 (Dissolved)		ND	0.2							

Radium 226 in Water - Dissolved		Sample Type	LCS		Units: pCi/L					
Analyte	RunNo: 139944	Result	RL	PrepDate: 10/12/16 0:00	BatchID: 12424	Spike	Ref Samp	%REC	% Rec Limits	Qual
Radium 226 (Dissolved)		11.5	0.2	12				96.3	67.1 - 122	

Radium 226 in Water - Dissolved		Sample Type	LCSD		Units: pCi/L					
Analyte	RunNo: 139944	Result	RL	PrepDate: 10/12/16 0:00	BatchID: 12424	Conc	%RPD	%REC	% RPD Limits	Qual
Radium 226 (Dissolved)		11.0	0.2	11.5	4.68			91.9	20	

Radium 226 in Water - Dissolved		Sample Type	MS		Units: pCi/L					
Analyte	RunNo: 139944	Result	RL	PrepDate: 10/12/16 0:00	BatchID: 12424	Spike	Ref Samp	%REC	% Rec Limits	Qual
Radium 226 (Dissolved)		371	0.2	12	355			131	65 - 131	

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 - E Value above quantitation range
 - J Analyte detected below quantitation limits
 - ND Not Detected at the Reporting Limit
 - R RPD outside accepted recovery limits
 - X Matrix Effect



ANALYTICAL QC SUMMARY REPORT

CLIENT: Power Resources (Cameco)
Work Order: S1609525
Project: MU-1 Stability Monitoring

Date: 10/20/2016
Report ID: S1609525001

Solids By SM 2540

Sample Type **MBLK**

Units: mg/L

DI (10/02/16 13:59)	RunNo: 139668							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Total Dissolved Solids (180)	ND	10						

Solids By SM 2540

Sample Type **LCS**

Units: mg/L

CONTROL (10/02/16 14:00)	RunNo: 139668							
Analyte	Result	RL	Spike	Ref Samp	%REC	% Rec Limits	Qual	
Total Dissolved Solids (180)	220	10	226		98.2	90 - 110		

Solids By SM 2540

Sample Type **DUP**

Units: mg/L

S1609524-010A (10/02/16 14:11)	RunNo: 139668							
Analyte	Result	RL	Ref Samp	%RPD	%REC	% RPD Limits	Qual	
Total Dissolved Solids (180)	330	10	330	0.608		20		

Qualifiers:

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- L Analyzed by another laboratory
- O Outside the Range of Dilutions
- S Spike Recovery outside accepted recovery limits

- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- X Matrix Effect